

ABSTRACT

A map which defines a relationship of an exhaust gas pressure  $P_2$  at the outlet of a filter (13) to a load  $Q$  and rotation speed  $N_e$  of an engine (1) is prepared, and an exhaust gas pressure  $P_1$  at the inlet to the filter (13) is determined from a differential pressure  $\Delta P$  between the front and rear of the filter and the outlet pressure  $P_2$  obtained by referring to the map. The inlet pressure  $P_1$  determined in this manner is used to determine an exhaust gas volumetric flow rate  $Q_1$ , and thus an accurate particulate accumulation  $SM$ , which is required to determine the need for regeneration of the filter (13), can be calculated.